AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (previously presented) A drive system for a vehicle, the vehicle having a transmission with an output for providing rotary power to each of a front and a rear set of wheels, the drive system comprising:

a first differential operably connected to the output of the transmission and operable to receive a drive torque;

a power take-off unit operably connected to the first differential;

a second differential connecting the power take-off unit to the rear wheel set and operable to provide the drive torque to the rear wheel set;

an input pinion extending outwardly from the second differential, the input pinion including a splined shaft;

a two mode drive unit having a flange to directly connect the two mode drive unit to the second differential, the two mode drive unit further including a planet carrier directly connected to the splined shaft and operable to rotate the input pinion;

wherein the two mode drive unit is operable to shift between a high range all-wheel drive operation and a low range all-wheel drive operation.

2. (previously presented) The system of Claim 1, wherein the two mode drive unit comprises a mechanical connector operable to directly mount the two mode drive unit to the second differential, the mechanical connector including a pilot element.

- 3. (original) The system of Claim 2, comprising a prop shaft operably connected between the power take-off unit and the two mode drive unit.
- 4. (original) The drive system of Claim 1, wherein the two mode drive unit comprises a mechanical connector operable to directly mount the two mode drive unit to the power take-off unit.
- 5. (original) The system of Claim 4, comprising a prop shaft operably connecting the two mode drive unit and the second differential.
- 6. (original) The system of Claim 1, wherein the two mode drive unit comprises a shift device operable to shift between the high range all-wheel drive operation and the low range all-wheel drive operation.

7. (previously presented) A drive system for a vehicle, the vehicle having a transmission with an output for providing rotary power to each of a front and a rear set of wheels, the drive system comprising:

a first differential operably connected to the output of the transmission and operable to receive a drive torque;

a power take-off unit operably connected to the first differential;
a second differential connecting the power take-off unit to the rear
wheel set and operable to provide the drive torque to the rear wheel set;

a two mode drive unit operably positioned between the power takeoff unit and the second differential;

wherein the two mode drive unit is operable to shift between a high range all-wheel drive operation and a low range all-wheel drive operation; and at least a pair of planetary gear sets disposed in the first differential; wherein the planetary gear sets operably function as a gear reduction unit when in the low range all-wheel drive operation.

Claims 8 through 10canceled

11. (previously presented) A drive train for a vehicle, the vehicle having a transmission with an output for providing rotary power to each of a first and a second set of wheels, the drive train comprising:

a first differential operable to receive the rotary power from the transmission and split the rotary power into a first portion operable to drive the first set of wheels and a second portion;

a power take-off unit operable to receive the second portion of the rotary power from the first differential;

a second differential operable to rotate the second set of wheels;

a drive unit operably connectable between the power take-off unit and the second differential;

a plurality of drive unit gears operable to provide at least a first mode having the second portion multiplied by a first predetermined gear ratio and a second mode having the second portion multiplied by a second predetermined gear ratio;

a shift collar within the drive unit operable to select between the first mode and the second mode;

a plurality of engagement plates operable to engage selected ones of the plurality of drive unit gears;

an internal gear slidably joined to the shift collar;

a planet carrier rotatable within the internal gear;

a plurality of planet gears positionable about the planet carrier;

a first dog-ring plate fixedly connected to the planet carrier; and

a second dog-ring plate fixedly connected to the shift collar;

wherein the shift collar is operably movable to engage selected ones of the engagement plates in each of a first collar position corresponding to the first mode and a second collar position corresponding to the second mode; and

wherein the first collar position defines the first mode having the first dog-ring plate operably engaged with the second dog-ring plate.

- 12. (original) The drive train of Claim 11, further comprising:
 a housing containing the plurality of drive unit gears;
 a third dog-ring plate fixedly connected to the housing;
 wherein the second collar position defines the second mode having
 the second dog-ring plate operably connected to the third dog-ring plate.
 - 13. canceled
 - 14. canceled
 - 15. canceled

16. (previously presented) A method for transferring drive train power in an all-wheel drive vehicle, the vehicle having a transmission connected via a front differential and a power take-off unit to a rear differential, the method comprising:

positioning a two mode drive unit between the power take-off unit and the rear differential;

directly mounting the drive unit to the vehicle rear differential using a drive unit flange having a pilot member both operably coupling with a receiving flange of the second differential;

transferring a vehicle drive torque from a planetary carrier of the drive unit to a directly connected input pinion of the second differential;

engaging a preselected group of gears within the drive unit to operably provide at least a first gear configuration and a second gear configuration; and

shifting the plurality of gears in the drive unit between one of the first gear configuration corresponding to a high speed mode and the second gear configuration corresponding to a low speed mode of operation for the all-wheel drive vehicle.

17. (canceled)

18. (original) The method of Claim 16, comprising remotely linking the drive unit to the vehicle rear differential using a prop shaft.

- 19. (previously presented) The method of Claim 16, comprising dividing the vehicle drive torque between each of the vehicle rear differential and the vehicle front differential.
- 20. (original) The method of Claim 19, comprising changing a portion of the vehicle drive torque divided to each of the vehicle rear differential and the vehicle front differential.

21. (previously presented) A vehicle drivetrain comprising:

a first differential adapted to receive a rotary input from a vehicle transmission, the first differential having a first output and a second output, the first output being configured to drive a first set of vehicle wheels;

a power take-off unit having an input and an output, the input being coupled to the first differential and receiving rotary power from the second output;

a multi-speed gearbox having an input and an output, the input of the multi-speed gearbox receiving rotary power from the output of the power take-off unit, the multi-speed gearbox being operable in at least a first gear ratio and a second gear ratio;

the multi-speed gearbox includes an epicyclic gear set having a ring gear, a plurality of planet gears meshingly engaged with the ring gear, and wherein the input of the multi-speed gearbox is meshingly engaged with the plurality of planet gears; and an axle having a second differential, the second differential having an

wherein the ring gear is stationary relative to the input of the multi-speed gearbox when the multi-speed gearbox is operated in the first gear ratio.

input that receives rotary power from the output of the multi-speed gearbox;

22. (original) The vehicle drivetrain of Claim 21, wherein a prop shaft operably couples the output of the power take-off unit and the input of the multi-speed gearbox.

- 23. (original) The vehicle drivetrain of Claim 21, wherein a prop shaft operably couples the output of the multi-speed gearbox and the input of the second differential.
- 24. (original) The vehicle drivetrain of Claim 21, wherein the first differential employs an epicyclic gear set.
 - 25. (canceled)
 - 26. (canceled)
- 27. (previously presented) The vehicle drive train of Claim 21, wherein the ring gear co-rotates with the input of the multi-speed gearbox when the multi-speed gearbox is operated in the second gear ratio.